

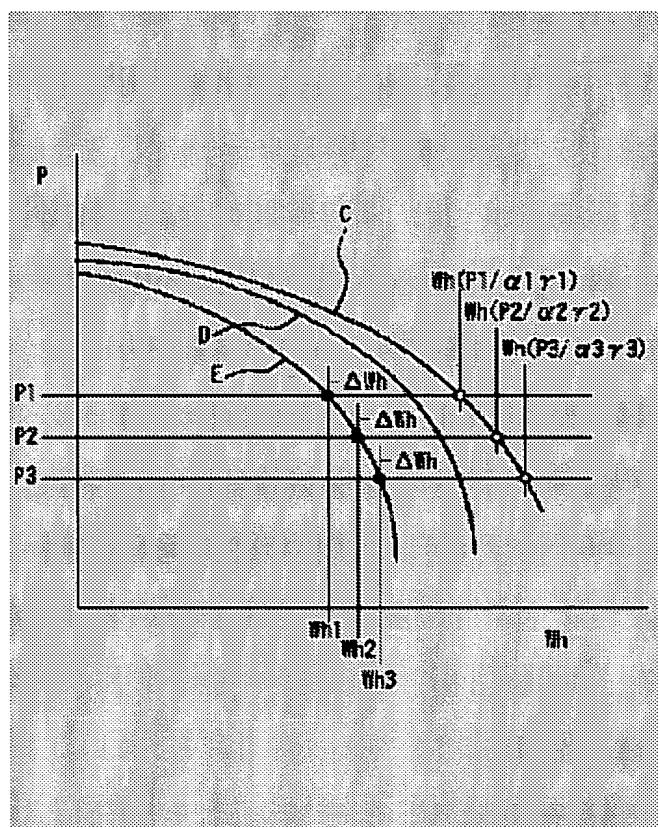
BATTERY DISCHARGE VALUE MEASUREMENT DEVICE

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- **International:** H02J7/00; B60L3/00; G01R31/36
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Abstract of JP2000014019

PROBLEM TO BE SOLVED: To correct a detection error. **SOLUTION:** An output power P_1 and a discharge watt-hour Wh_1 are detected. Further, a temperature and an internal resistance deterioration factor γ_1 at that time are also detected. A corresponding temperature deterioration factor α_1 is obtained by a temperature table. By using the output power P_1 , $P_1/(\alpha_1 \gamma_1)$ is calculated to correct the internal resistance deterioration and the temperature deterioration into initial states and the estimated value of a discharge watt-hour Wh ($P_1/(\alpha_1 \gamma_1)$) is obtained in accordance with initial characteristics C . The obtained value is a discharge watt-hour before the capacitance deterioration and, if the value is multiplied by a capacitance deterioration factor β , an actual discharge watt-hour shown by characteristics D is obtained. The correction formula and a correction formula obtained by adding a detection error correction value ΔWh to the detection value Wh_1 are made to be equal to each other to obtain a 1st calculation formula. When the discharge is progressed in a predetermined manner, 2nd and 3rd calculation formulae are obtained. By satisfying the formulae simultaneously, the detection error correction value ΔWh and the capacitance deterioration factor β can be obtained. By correcting the detection value of the discharge watt-hour with the detection error correction value ΔWh , the actual discharge watt-hour detection value can be obtained.



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